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## Listing of Claims:

1. (Original) A method of operating a cryptographic data processing system that comprises a host processor, a system memory coupled to the host processor, and a cryptographic processor integrated circuit that comprises a local memory and is coupled to the host processor and the system memory, the method comprising:

loading at least one operand from the system memory to the local memory; and executing an instruction using the cryptographic processor that references the at least one operand using a first relative position in the local memory.

2. (Original) The method of Claim 1, wherein loading at least one operand from the system memory to the local memory comprises loading at least two operands from the system memory to the local memory, and executing the instruction comprises:

executing the instruction using the cryptographic processor that references a first one of the operands using the first relative position in the local memory and a second one of the operands using a second relative position in the local memory, the first and second relative positions being contiguous with one another.

- (Original) The method of Claim 2, wherein the first one of the operands and the second one of the operands comprise different numbers of bits.
- 4. (Original) The method of Claim 1, wherein executing the instruction comprises:

generating a result based on the at least one operand; and storing the result at a second relative position in the local memory.

5. (Original) The method of Claim 4, wherein the first relative position comprises a first offset from a base address in the local memory, and the second relative position comprises a second offset from the base address in the local memory.

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6. (Original) A method of operating a cryptographic processor integrated circuit that comprises a local memory, the method comprising:

executing an instruction using the cryptographic processor that references at least one operand using a first relative position in the local memory.

7. (Original) The method of Claim 6, wherein executing the instruction comprises:

generating a result based on the at least one operand; and storing the result at a second relative position in the local memory.

8. (Original) The method of Claim 7, wherein the first relative position comprises a first offset from a base address in the local memory, and the second relative position comprises a second offset from the base address in the local memory.

## 9 - 15. (Canceled)

16. (Original) A cryptographic data processing system that comprises a host processor, a system memory coupled to the host processor, and a cryptographic processor integrated circuit that comprises a local memory and is coupled to the host processor and the system memory, the system further comprising:

means for loading at least one operand from the system memory to the local memory; and

means for executing an instruction using the cryptographic processor that references the at least one operand using a first relative position in the local memory.

17. (Original) The cryptographic data processing system of Claim 16, wherein the means for loading at least one operand from the system memory to the local memory comprises means for loading at least two operands from the system memory to the local memory, and the means for executing the instruction comprises:

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means for executing the instruction using the cryptographic processor that references a first one of the operands using the first relative position in the local memory and a second one of the operands using a second relative position in the local memory, the first and second relative positions being contiguous with one another.

- 18. (Original) The method of Claim 17, wherein the first one of the operands and the second one of the operands comprise different numbers of bits.
- 19. (Original) The cryptographic data processing system of Claim 16, wherein the means for executing the instruction comprises:

means for generating a result based on the at least one operand; and means for storing the result at a second relative position in the local memory.

- 20. (Original) The cryptographic data processing system of Claim 19, wherein the first relative position comprises a first offset from a base address in the local memory, and the second relative position comprises a second offset from the base address in the local memory.
  - 21. (Original) A cryptographic processor integrated circuit that comprises: a local memory; and

means for executing an instruction using the cryptographic processor that references at least one operand using a first relative position in the local memory.

22. (Original) The cryptographic processor integrated circuit of Claim 21, wherein the means for executing the instruction comprises:

means for generating a result based on the at least one operand; and means for storing the result at a second relative position in the local memory.

23. (Original) The cryptographic processor integrated circuit of Claim 22, wherein the first relative position comprises a first offset from a base address in the local memory, and the second relative position comprises a second offset from the base address in the local memory.

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## 24 - 26. (Canceled)

(Original) A computer program product for operating cryptographic data 27. processing system that comprises a host processor, a system memory coupled to the host processor, and a cryptographic processor integrated circuit that comprises a local memory and is coupled to the host processor and the system memory, the computer program product comprising:

a computer readable program medium having computer readable program code embodied therein, the computer readable program code comprising:

computer readable program code for loading at least one operand from the system memory to the local memory; and

computer readable program code for executing an instruction using the cryptographic processor that references the at least one operand using a first relative position in the local memory.

(Original) The computer program product of Claim 27, wherein the computer 28. readable program code for loading at least one operand from the system memory to the local memory comprises computer readable program code for loading at least two operands from the system memory to the local memory, and the computer readable program code for executing the instruction comprises:

computer readable program code for executing the instruction using the cryptographic processor that references a first one of the operands using the first relative position in the local memory and a second one of the operands using a second relative position in the local memory, the first and second relative positions being contiguous with one another.

- (Original) The computer program product of Claim 28, wherein the first one of 29. the operands and the second one of the operands comprise different numbers of bits.
- (Original) The computer program product of Claim 27, wherein the computer 30. readable program code for executing the instruction comprises:

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computer readable program code for generating a result based on the at least one operand; and

computer readable program code for storing the result at a second relative position in the local memory.

- 31. (Original) The computer program product of Claim 30, wherein the first relative position comprises a first offset from a base address in the local memory, and the second relative position comprises a second offset from the base address in the local memory.
- 32. (Original) A computer program product for operating a cryptographic processor integrated circuit that comprises a local memory, the computer program product comprising:

a computer readable program medium having computer readable program code embodied therein, the computer readable program code comprising:

computer readable program code for executing an instruction using the cryptographic processor that references at least one operand using a first relative position in the local memory.

33. (Original) The computer program product of Claim 32, wherein the computer readable program code for executing the instruction comprises:

computer readable program code for generating a result based on the at least one operand; and

computer readable program code for storing the result at a second relative position in the local memory.

34. (Original) The computer program product of Claim 33, wherein the first relative position comprises a first offset from a base address in the local memory, and the second relative position comprises a second offset from the base address in the local memory.

35 - 40. (Canceled)